

MR MARK

A NEWSPAPER BY AND FOR Y-12 EMPLOYEES OF CARBIDE AND CARBON CHEMICALS DIVISION UNION CARBIDE AND CARBON CORPORATION

Vol. 5. No. 1

OAK RIDGE, TENNESSEE

Wednesday, January 3, 1951

Camera Club Name Groups

Y-12 photographer Vince Moore vill relate his experiences and technique of an industrial photographer to members of the Carbide Camera Club at its meeting Tuesday, January 9. The session will be held at 7:30 o'clock in the club headquarters, Y-12 East Portal

Especial attention will be paid by Moore to dark room techniques and all club members are urged to be prepared to ask questions on their own dark room problems.

The newly elected officers of the club will preside at the meeting next Tuesday. They are J. L. Lundholm, of Oak Ridge National Laboratory, president; Frank Gordon, of Y-12, vice president; and Ed Witt, K-25, secretary-treasurer. They succeed Nat Stetson, of Y-12; S. A. Hluchan, or ORNL; and Nelson Van Wie, of K-25, respectively.

The new and old officers will collaborate in appointment of standing committees for the new year and plans will be launched to formulate a program for each month of the year.

Graduate Program Enrollment Set For Saturday, January 6

Final registration for the winter quarter classes of the Oak Ridge resident graduate program will be held from 9 a. m. to 12 noon, Saturday, January 6. During the fall term of the graduate program, conducted by the University of Tennessee division of university extension, there were 24 Y-12ers enrolled and about the same number are expected to take courses offered in the winter

Registration may be made at the university graduate office in Oak Ridge, Institute Training Building, Room 7, telephone 5-5606, or at the graduate office in Knoxville, University Administration Building, Room 203, telephone 3-9379.

Courses offered include graduate work in chemical engineering, chemistry, mathematics and phy-

Electric Engineer Body Meets Tuesday

All Y-12 members of the Oak Ridge Section of the American Institute of Electrical Engineers and other engineers in the plant are invited to attend a meeting of the group at 8 o'clock next Tuesday night, January 9, in the West Wing of the Jefferson Junior High

School.

F. W. McCloska, of the engineering firm of Sargent and Lundy, Chicago, Ill., will speak on the electrical design of steam generating stations. The speaker is one of five senior engineers with the Chicago concern, which has designed approximately 20 per cent of all the steam generating cent of all the steam generating facilities in the United States. Mc-Closka is a graduate of the Armour Institute of Technology in the class of 1929 and completed graduate work at Northwestern University.

To Hear Moore; Nominating Body **Preparing Slate**

Names of Candidates, Meeting Date Expected To Be Given Soon

A five-man nominating ccmmittee of the Y-12 Employees Credit Union has practically completed a slate of officers to present to the membership at the annual election meeting to be held later this month, it has been an-nounced by Leon O. Love, chairman of the committee. The complete slate, together with the date for the meeting, is expected to be ready for announcement in The Bulletin next week.

Membership Widespread

Other members of the nominating committee are C. G. Henderson, Safety; J. R. Thorpe, Maintenance Shops; W. F. Ford, Electrical Maintenance; and M. J. Fortenberry, Materials Chemical Division Love in with the Lecture Division. Love is with the Isctope Research and Production Division. The committee was appointed by Don Phillips, president of the credit union, with the intent of spreading its membership throughout the plant as far as possible.

Meanwhile the office of the credit unicn, Room 108, Bldg. 9704-2, second floor, reopened today, Wednesday, January 3, for business. The office had been closed during the holiday season to allow Mrs. Lorenz Causey of to allow Mrs. Lorena Causey, office clerk of the organization, and officers to catch up on the paper work of the credit union and prepare a report for the first six months of operation. The credit union began operations in July,

The regular office hours of from 11:30 a. m. to 1 p. m. will be observed at the credit union headquarters to receive applications for loans and also for membership.

Capital Exceeds \$100,000

Carl W. Cooper, treasurer of the credit union, stated last week that investment in shares of the organ-ization had passed the \$100,000 mark and that approximately \$87,-000 was on loan as of December 19. A heavy rush of applications for Christmas loans boosted the figures \$31,000 during the first 19 days of last month.

Y-12 Credit Union Withholding Tax Statements **Out With Friday Pay Checks**

Weekly salary and hourly roll employees will receive their W-2 Withholding Tax statements reporting earnings and income tax deductions for the year 1950 with pay checks to be delivered Friday, January 5. Y-12ers on monthly salary now are receiving their statements by mail, the distributions having begun last week

Three Departments Repeat 'All Present'

Only three Y-12 departments, all in the Minor League, repeated their perfect attendance records of the preceding week when the figures for the week ending December 24 were recorded. The plant-wide absentee mark for the latest reporting period was 2.5 per cent, a drop of .3 per cent from the preceding week.

Two Others Advance

The three repeating departments were Steam Plant, Transportation and Receiving and Shipping. Two other Minor League groups also reported perfect attendance for the week ending December 24, they being Superintendents and Property Sales. They advanced from second and sixth places held during

the week ending December 17. Second place in the Minor League was taken by the Cafeteria for the week ending December 24 and which reported an absentee mark of .6 per cent. In third place was General Maintenance with .9 per cent of its per-

sonnel absent. Shops Goes To Top

In the Major League, Maintenance Shops advanced from second place to first in the latest reporting period and had an absentee mark of 1.7 per cent. Field Maintenance rose all the way from seventh place to take second with 1.7 per cent of absenteeism. Just a shade behind in third place was Chemical with an absentee record
Continued on Page 2

Physics Seminar Meetings Resume

The Oak Ridge Physics Seminar will resume meetings Friday, Jan-uary 5, in the West Lounge of the Ridge Recreation Hall, after a holiday recess. Dr. Norman Ramsey of Harvard University, will lead the discussions. The topic will be "Some Recent Nuclear Resonance Exponents."

Regulations for filing income tax returns are unchanged from last year. Persons earning less than \$5,000 during 1950 may use either the Income Tax Return Form No. 1040 or Form 1040-A, giving names of dependents, if any, and the exemptions sought. If earnings are more than \$5,000

the taxpayer must use the Form 1040-A, computing his own tax on the chart provided.

In all cases the taxpayer must attach the W-2 Withholding Tax statement showing the earnings and income tax withheld from those earnings during 1950. The statements are issued in duplicate with the taxpayer retaining one copy.

As a reminder to new employees in Y-12 who received W-2 Forms from previous employers, both the old forms and the form received from Y-12 must be attached to the income tax return form.

When the income tax return forms are completed they are to be sent with remittance to the Collector of Internal Revenue, Nashville, Tenn.

Pay Distribution Set At East Portal; Hours At Others Are Same

For the convenience of Y-12ers working in the eastern section of the plant area beginning with the pay day of Friday, January 5, pay checks will be distributed at the East Portal from 6:30 a. m. to 8 a. m. and from 2:30 p. m. to 4 p. m. Pay checks will continue to be issued at the North and West Portals during the same hours, there being no change in the schedule at the latter two loca-

When the pay checks are not at the portals for distribution they may be obtained at the office of the Paymaster, Bldg. 9704-2 until 5 p. m. on pay days or from 8 a. m. to 4:30 p. m. on other work

Pay checks also may be obtained at the office of the Paymaster on Saturdays from 6:45 a. m. to 8 p. m.

Five Young Y-12 **Employees Join** U. S. Air Force

Group Plans To Leave January 17 For Texas; Receive Best Wishes

Five young Y-12ers, all gradu-ates of the Oak Ridge High School, were among a group of Oak Ridgers who enlisted in the United States Air Force last Friday. They expect to leave January 17 for Lackland Field, Tex., near San Antonio.

The five were Charles Kirk-wood. W. A. Maddux, his brother,
C. J. Maddux,



Harold Little and Richard and Richard Garland. The first three were helpers in the Y-12 Electrical Mainte nance Department. Little was a junior health

physics techni-Kirkwood cian in the Health Physics and Hygiene Department and Garland junior clerk in Plant Engineering. Kirkwood, W. A. Maddux, Little and Garland were members of the Y-12 Cardinals in baseball and basketball.

Kirkwood, 20 years old, was employed in Y-12 on June 26, 1950. His father is Charles

L. Kirkwood and they live at 100 Kingfisher Lane, Oak Ridge. The younger Kirkwood was born in Mayfield, Ky. W. A. Maddux is 18

years old and was employed on September 5 of last year. His brother is 20 years old and came to work August 18, 1950. Their father is Clarence J. Maddux and they live at 111 Salem Road.

Richard Garland is the son of Jack Garland, of the Y-12 Receiving and Shipping Department, who lives at 100 Kingfisher Lane.



Richard is 18.

Harold Little is 20 years old and is the son of Mrs. John T. Little, of 100 California Road.

Garland Although all of the group of young volunteers have only been in Y-12 for a few months, they have become well liked and carry best wishes of the entire plant personnel in their armed forces careers. Each had excellent work and attendance records during their stay in Y-12.

BAKELITE FORMED IN 1910

The Bakelite Corporation was organized in 1910 and became a unit of Union Carbide and Carbon Corporation in 1939. It now is a division of UCC.

SAFETY SCOREBOARD

Your Plant Has Operated

102 Days

Without A Lost Time Accident

Through December 31

Y-12 Autoists Urged To Have Cars Tested Early In Safety Lane; Inspection Period For First Half Of Year Continues To March 24

Oak Ridge motorists, George E. fler. Miller, of the Oak Ridge Public Department, has urged early visits to the Oak Ridge Safety Lane to obtain the blue and orange stickers signifying their vehicles are in safe operating condition. The Safety Lane opened January 2 and will remain open through March 24 for inspection of privately owned vehicles.

Those blue and orange stickers are a badge of distinction for all motorists to carry on their windshields as they show that a vehicle has passed a stringent test to determine if it is safe to drive. The inspection includes tests of wheel alignment, steering wheel play, all lights, horn, windshield

In a request to all Y-12 and wiper, tires, all brakes and muf- torists that they check lights and

The Safety Lane on East Division Road will be open on the following schedule:

Tuesdays through Fridays, 9:15 a. m. to 1 p. m. and 2 p. m. to 6 p. m.

Saturdays only, 8:15 a. m. to 12 noon and 12:45 to 5 p. m.

The thoroughness of the Oak Ridge Safety Lane inspections are borne out by the fact that in automobile accidents in the city only 4.4 per cent were attributed to faulty vehicles, according to Miller. This compares to from 10 to 15 per cent in other cities, he pointed out.

Miller has suggested to all mo-

other equipment to be tested as far as possible before coming to the Safety Lane. This will save time for both the motorist and Safety Lane employees, he pointed out.

Another suggestion by Miller is that motorists do not bring children with them when the automobile is to be tested because of the possiblity of injury when the car is brought to an abrupt halt

on testing brakes. All vehicles operating in Oak Ridge more than one day per week are required to have a Safety Lane sticker. However, safety stickers of other recognized safety lanes, including Knoxville, are honored

Bulletin

Published Weekly By And For Y-12 Employees Of CARBIDE AND CARBON CHEMICALS DIVISION Union Carbide And Carbon Corporation

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Oak Ridge

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GEORGE W. DOBBS . . . Editor

OFFICE North Portal, Bldg 9701-1 Telephone 7753

Three Departments Repeat 'All Present'

Continued from Page 1 of 1.78 per cent. Field Mainten-ance and Chemical were tied for seventh place the previous week.

The plant-wide absentee record for the week ending December 24, by departments, follows:

MAJOR LEAGUE

More Than 50 Employees Scheduled

Мо	Percentage Standing			
Dept.	Absent	12-24-50	12-17-50	
2003	1.7	1	2	
2015	1.75	2	7	
2619	1.78	3	7	
2091	1.9	4	3	
2616	2.2	5	4	
2142	3.58	6	8	
2282	3.61	7	6	
2014	4.2	8	9	
2283	4.8	9	1	
2077	4.9	10	5	
Dept.	MINOR 15-49 Employ Absent		ed 12-3-50	
Dept.	Percentage Standing			

,	MINOR I	EAGUE	od.
Dept.	Absent Percentage	12-10-50 Stan	12-3-50 iding
Dept.	Absent	12-24-50	12-17-50
2743	0.0	1	- 1
2008	0.0	1	1
2143	0.0	1	1
2200	0.0	1	2
2145	0.0	1	6
2107	0.6	2	2 6 4
2002	0.9	3	1
2064	1.11	2 3 4 5 6 7	14-
2109	1.14	5	1
2090	1.3	6	5
2133	1.58	7	12
2739	1.64	8	12
2018	2.6	9	7
2140	2.9	10	1
2060	3.1	11	11
2046	3.6	12	10 3 8
2108	4.8	13	3
2001	5.5	14	8
2096	7.6	15	15
2005	8.1	16	13
Group	obsentee pero	entage was	2.4 pe

Group absentee percentage was 2.4 per cent, .3 per cent lower than the preceding week.

The plant average for the week ending ecember 24 was 2.5 per cent, .3 per ent lower than the preceding week.



Y-12 employees recently becoming fathers of babies born at Oak Ridge Hospital are Robert L. Quinn, Electromagnetic Research, girl, born Christmas Day, December 25; Glenn W. Caldwell, Chemical, girl, born December 21; and Bruce Whitaker, Manufacturing Office, boy, born December 28.

Strictly Confidential

Howdy and Happy New Year. Incidentally—how many of those New Year resolutions have you busted yet?

Jeane Wanamaker, of the Research Engineering Department, spent a week of vacation at home in Oak Ridge . The department welcomes Elbert Asbury, Jr., to the roster.

O. E. Gilcrease and W. T. Naive, of Plant Engineering, were on the vacation list last week . department presented Roy Byrd a pair of spurs for Christmas ("to go with his new cowboy boots, not to mention his sideburns and mustache.") . . . Roy Knight is welcomed back after being on the sick list.

Jeanne Rogers, of the Analytical Chemistry Division, spent a week of vacation at her home in Pontiac, Mich. . . . C. D. Susano vacationed last week at home in Knoxville. . . Roberta McCutchen is back from a week of vacation at home in Alganoc, Mich. . . . L. E. Taylor vacationed at home in Mascot last week . . . Bill Ross is back from a week of vacation spent at home in Huntsville, Ala. . . . J. W. Robinson spent a recent week's vacation in Oak Ridge. . . . Bill Luke-man spent the Christmas holidays with his folks in Hannibal. Mo. . Virginia Smith and her husband, Guy, of the Chemical Dept., spent Christmas with her mother in Newport, Tenn. . . . Adolf Roemer was at home in Montgomery, Ala., for Christmas . . . Elizabeth Young spent Christmas at her home in Sweetwater. . . . Dr. Menis spent Christmas at his home in Cincinnati, Ohio . . . Lester Jenkins went over to Asheville, N. C., for the Christmas holidays . . . Bill Miller was in Salisbury, N. C., and Betty Been was at home in Andrews, N. C., for the Xmas holidays. . . . Helen Grady spent Christmas with her relatives in Benton Harbor,

Helen Sisson, of General Maintenance Offices, spent a week of vacation at home in Knoxville and in Kentucky.

Jodie Brown, of Medical, spent Christmas with her folks in Viola, Tenn. . . . Blanche Gibbs was in North Carolina for the holiday season . . . and "Gen" Smith spent Christmas with her folks in Dante, Va. . . . Celeste McGhee has returned from two weeks of vacation spent at home in Knoxville.

Hazel Lane, of the Superintendents Department, and her husband, Donald, of Field Maintenance, spent a week of vacation in Chi-cago, Ill.

Betty Broome, of Plant Records, spent the Christmas holidays at her home in Spartanburg, S. C. Phyllis Finneran spent the holiday season at her home in St. Paul, Minn., and reported that the

at home in Kingsport, Tenn., dur ing the holiday seasson . . . Elizabeth Carter spent the New Year season with relatives in Covington, Eunice Webster attended the Cotton Bowl classic in Dallas, Texas.

Warren Grimes, of the Material Chemistry Division, was at home in Indiana for Christmas; he also planned to fly to Dallas, Texas, for the Cotton Bowl game. K. B. Brown and his family visited his father and mother-in-law in West Tennessee during Christmas. . Dave Crouse flew to Pennsylvania to spend Christmas with his parents. . . . Frances Gilliam spent a week of vacation at home in Oak

Ridge. . . . Don Phillips vacationed at home in Oak Ridge last week. . . . Dr. D. G. Hill, of Duke University, a visiting consultant, spent last week with the division. E. L. Boorn and his wife have returned from a week of vacation in Florida, sight-seeing in Tampa, Daytona and Miami . . . Dr. Don W. Kuhn and his family spent the New Year holidays with his wife's parents in Corbin, Ky.

Bobbie McNew, of the Guard Department, spent a week's vacation at her home in Knoxville.

Elmore Koons, of the Field Maintenance Department, and his wife, Mavis, of the Product Chemical Department, spent a week of vacation in St. Lcuis, Mo., and went to Dallas, Texas, for the Cotton Bowl game. Elmore took this week off to recover . . . Charlie Greene says he spent his recent week of vacation picking

Margaret Johnson, of the Stores Department, spent a week of vacation in Florida . . . D. E. Ferguson is back at work after a week of vacation at home in Knoxville. The department welcomes Robert McGuffin to the roster and extends get-well wishes to J. R. Bayless and O. M. Kelly.

C. B. Hopkins, of Buildings and Grounds, and his family have been vacationing in Florence, Ala. . . A. L. Stewart and his family have returned from a week of vacation spent in Chattanooga and Georgia . . . W. B. Eisenhower has returned from a week of vacation.

Katie Williams and Betty Piney, of Uranium Control and Computing and Betty Whitehorn, of Security, attended the Cotton Bowl game in Dallas . . . Hallie Leicht and her husband spent the New Year week end in Bowling Green,

Ky. G. C. Henderson, of the Safety Department, and his wife spent Christmas in Charlotte, N. C., followed by a week of vacation.
... Lieut. Ruth Marie Ziemke, from Fort Lee, Va., spent a two week furlough with her parents,

Y-12ers Are Invited To Join Chorus; Rehearsals Resumed

The several Y-12 members of the Oak Ridge Community Chorus have extended an invitation to all employees to join the choral group when it resumes rehearsals at 7:30 o'clock Monday night, January 8, n the small auditorium of the Jefferson Junior High School.

The Bach "B Minor Mass" will be presented by the chorus at its next concert to be given March 15 in the high school auditorium. John Krueger, instructor at the University of Tennessee and director of the chorus, will conduct the concert.

Y-12 members of the chorus include Jeanne Rogers, secretary of the group, Bea Cameron, John Redmon and Robert S. Knight. They have asked any Y-12er wishing to join the group and who have never sung with the chorus before to report for an audition at 7:15 o'clock, just preceding the rehearsal period.

former Y-12er, having been a member of the library staff several

Ralph H. Waddle, of Employee Relations, spent a two week vacation at home in Knoxville.

Sue Holliday, of the Electrical Maintenance Department, is va-cationing this week in Oak Ridge. J. L. Kennedy and his wife, Mozelle, of the Security Department, are spending a week's va-cation at his home in Wichita Falls, Tex. . . . The department welcomes J. C. Ezell back to work after his recent illness.

Mae Hale, of the Electromag-

netic Research Division, and her husband were among the many Tennessee fans who followed their favorite team out to Texas for the Cotton Bowl clash. . . . Charpie and his wife spent Christmas in Ohio with relatives.

K. S. Lyle, of Property Sales, spent his week of vacation at home in Oak Ridge, entertaining relatives from Maine and Massachusetts. . . . Juanita Fugate spent Christmas at her home in Kentucky. . . J. K. Jenkins vacationed

at home in Kingston, last week.

Jack Garland, of Receiving and Shipping, and his family spent Christmas in Erwin, Tenn., with his parents, who celebrated their golden wedding anniversary at that time.

The Tools Department welcomes H. L. Lowe to the roster; and also wishes a speedy recovery for Mrs. W. R. Kelly, who is in the Baptist Hospital in Knoxville.

The Isotope Research and Production Division extends sympathy to Alma Shaw over the recent loss of her mother in LaFollette, Tenn. . . . W. A. Bell spent last week's vacation at home in Oak Paul, Minn., and reported that the temperature was 22 degrees below zero there. . . . Bobbie Kincaid was ball Lane, Oak Ridge. Ruth is a Ridge. . . . Edith Zarzechi and her husband, Joe, spent a week vacation in Detroit, Mich. . . . Dr. 2093



CAMPANELLA - HANTZ

The marriage of Salvatore Campenella, of the Y-12 Chemical Department, to Miss Mildred Hantz, of Tuscon, Ariz., on Friday, December 22, has been announced. The wedding was solemnized at 10 a. m. at St. Mary's Church, Oak Ridge, by Father F. McRedmond.

The bride is the daughter of Charles Hantz, 1245 East Prince Road, Tuscon, while parents of the groom are Mr. and Mrs. Joseph Campenella, 411 Lawrence Street, Rome, N. Y.

At her wedding the bride wore a powder blue street length gown of Chantilly lace over satin with Chantilly lace jacket and gaunt-lets to match. She wore a powder blue satin hat and navy blue shoes. Maid of honor was Elizabeth Kirk, of Oak Ridge, who wore a windsor blue velvet street length dress with black shoes, winter white hat and accessories.

Best man at the ceremony was Frank H. Anderson, of Oak Ridge. The bride attended the Newton-Ranson High School, Newton, Pa., and the Hilfred School of Beauty

Culture, Newark, N. J.

Campanella graduated from the Rome Free Academy in his home town and received his chemical engineer degree at the Clarkson College of Technology, Potsdam,



The following Y-12 employees were patients in the Oak Ridge Hospital last week: Abe L. Snapp, Maintenance Shops; Floyd L. Roberts, Guard; Oscar M. Kelly and Fred M. Henry, Buildings and Grounds; Xen D. Raines, Chem-ical; Charles W. Harpe, Sr., Clergy B. Harmon and John C. Ezell, Electrical Maintenance; Roy C. Mc-Knight, Plant Engineering; Eugene Clowers, Utilities Maintenance; Clarence L. Stevens, Product Chemical; and William A. Kramer, Product Maintenance Shops.

C. P. Keim vacationed last week at home in Oak Ridge. . . . Velma Rogers and her husband spent a week of vacation in Boston, Mass. Betty Pope spent Christmas with her relatives in Chattanooga. Tenn. . . . Bill Burns had his parents, from Rome, Ga., as guests during the holiday season.

Lenny Nicely, of Product Chem-

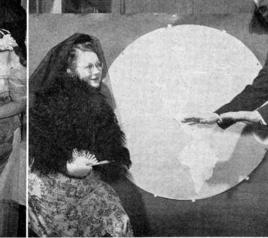
ical, spent a week of vacation in Chattanooga and Elizabethton,

Tenn.

J. M. McMaster, of the ProperContinued on Page 4

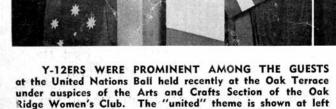






Y-12 employee, Mrs. Lang and Watson hold flags of Australia, Holland, Cuba and France. The center picture is not the Shiek of Araby with his harem but the Shiek of Y-12, Guard Chief Miles Bradford, who is the center of attraction. The admirers, from left, are Mesdames William Holden,

Y-12 Photo By Vince Moore Gilbert Jamieson, E. A. Brannon, M. H. Bradford, Ruth Jett and R. H. Sampley and the party perched on the chief's knee is Mrs. E. A. Allen. At right the party goes from shiek to swami with the couple being Mr. and Mrs. Robert Knight.



as Mrs. Walcott Watson, D. M. Lang, of K-25 and former

SPORTS NEWS IN Y-12



FRIENDLY FOES IN THE B BOWLING LEAGUE ARE SHOWN ABOVE. SEATED ARE THE Tigers, from left being George Graham, Woody Palmer, C. E. Gillihan, W. A. Freels and Roy Hale. Standing are the Wasps and from left they are Roy Webber, W. B. Tyree, Bob Schaefer, John Gordon and Russell Allstun. The little gnome peeking through in center rear is Olyne Poindexter Kappelmann, who says she was merely applying for a job as mascot of either team.

Isotopes Take Second W League Resumes | Hooks On Rampage In D Loop First Half

After enjoying a holiday from alley activities since December 19 away back in 1950, the D League of plant bowlers were scheduled to resume operations on Tuesday night of this week when the second round of play will begin. The Strikers walked away with first round honors with a record of 54 points won to only 10 lost, a high mark for Y-12 plant leagues.

The Strikers wound up the first half roll off with a four-point sweep from the Splinters, dropping the losers to third spot in the standings for the period behind the Isctopes, which split with the Old Men. In other matches the Toppers topped the Cermets for three and the Pick Ups and Angstroms broke even.

Fred Kappelmann, of the Strikers, rolled the highest game of the season, a 236 scratch and 269 handicap affair. His 663 handicap series was second high for the season and he added a 564 scratch series to sweep all individual scor-

ing honors.

The Strikers took most team honors with a 855 scratch game, 2,506 scratch series and 2,893 handicap series. The Angstroms' 1,060 handicap single game was the best of the night and third best of the season.

League standing at the end of

the first round follows:
Teom W L Teom
Strikers 54 10 Pick Ups
Isotopes 36 28 Angstroms
Splinters 34 30 Toppers
Old Men 32 32 Cermets

Recreation Loop **Quints Scheduled** To Play Thursday

Two of the Y-12 teams in the Recreation League will see action in games scheduled Thursday night, January 4, at Jefferson Junior High School. The Y-12 Pick Ups meet AEC at 8 o'clock and at 9 o'clock the Y-12 Guards

meet the Plexies.

Only one of the three Y-12 quints are scheduled to play in

Play: Hi Balls Nip Second Place Spot

The Women's League of plant bowlers was scheduled to open its second round Tuesday of this week after staging the roll off for first half of the season honors December 19. The Woes easily won the regular playing schedule, although losing two out of three to the Kemps in the roll off.

The feature of the roll off was the battle between three teams for second place money. The three entered the finale all tied up and the Hi Balls managed to ease into the coveted runner-up post by whitewashing the Controllers, one of the other two teams in the deadlock. The Kemps' win gave them third with the Controllers dropping to fourth. In other De-cember 19 matches the Dodgers took two from the Cracker Jax and the Strikettes and Racqueteers broke even with 1½ points each.

Betty Whitehorn, rolling for the Controllers, had the best scratch scores of the night with a 172 game and 442 series. Virginia Hill, of the Cracker Jax, posted a 223 handicap game for tops while a 592 handicap series by Kay Orton, of the Hi Balls, was best of the

The Kemps' 691 game and 1,927 series were the best scratch scores of the session. The Cracker Jax led with a 954 handicap game and the Hi Balls came through with a 2,706 handicap series.

Final standing for the first half

of the	seaso	on :	follows:			
Team	W	L	Team		W	L
Woes	30	18	Cracker .	Jax	24	24
Hi Balls	28	20	Dodgers		23	25
Kemps	27	21	Strikettes		201/2	
Controlle	rs 25	23	Racquete	ers	141/2	331/2

BAKELITE IN TV

Plastics made by Bakelite Di-vision of Union Carbide and Carbon Corporation are playing a big role in television. They are used in antennas, dials, control knobs, cabinets and insulating material of the sets.

School with the Y-12 Speckled Birds opening the program at 7 programs of Friday, January 5, and next Tuesday, January 9. The Friday night engagements will be played at the Oak Ridge High meet the ORNL Snow Birds.

In C Pin League

The Hooks team of the C League went on a rampage on the final roll off of the first half of the season on December 20 to sweep four games from the loop-leading Orphans to clinch second place for the period. They then went on to score a similar win in the first matches of the second half of the season with the Guards as their victims.

With three teams tied and battling for third place in the roll the Thin Pins took the honors with a three-point win from the Short Circuits, which finished fourth. The Hurricanes, the other team with a chance for third place, were blown out of the competition with a three-point defeat by the Moles.

In addition to the whitewash victory of the Hooks over the Guards, three-point victories were posted by the Thin Pins over the Moles, Short Circuits over the Orphans and Hurricanes over the Hornets. Despite their loss the Orphans had the best scratch scores of the session with a 840 game and 2,288 series. The Short Circuits posted a 1,012 handicap game and the Hooks a 2,795 handicap series for tops.

Harold Ratjen had the top scratch game with 206, also the leading scratch series of 546. Earl Panter, of the Hooks, led with a 262 handicap game and 698 handicap series.

League standing after the first matches of the second half of the season follows:

Team W L Team
Hooks 4 0 Hornets
Thin Pins 3 1 Orphans
Short Circuits 3 1 Moles
Hurricanes 3 1 Guards

New 'Black Light' Said **Developed to Find Particle**

The National Patent Council has announced that General Electric has perfected a new "black light" inspection equipment. The device enables a public health inspector to plug in the equipment, apply a non-toxic fluorescent dye to an apparently shiny and spotless pot in a restaurant, flip on the switch and create ultra-violet radiation that puts a spotlight on particles of food granules never suspected

Cards Meet Crack Detroit Quint Sunday At Jefferson

Visitors Hailed As Dazzling Team Compared To Old Celtics; Y-12 Plays Central Friday

One of the nation's outstanding exponents of dazzling basketball on the road these days, the Detroit Vagabond Kings, will display their wares against the Y-12 Cardinals at 8 o'clock next Sunday night, January 7. Meanwhile the Y-12ers are slated for an Oak Ridge City League clash against the Central Service Station team at 8:30 p. m. Friday night as the nightcap of a@

double header in which K-25 and

To wind out the Sunday night card with a high class women's game, the crack Nashville Cook's Goldblume feminine basketeers have been booked to play the Y-12 Robins. The Nashville organization is champion of the A. A. U. and has several All-American performers who will give Oak Ridge fans quite an exhibition. This preliminary game is scheduled to begin at o'clock and the admission charge for the entire bargain attraction of two games is 50c and 75c.

Played In National League

Naturally the Cards are hardly given a chance with the visiting pro team, which formerly played in the National Basketball League. However, the visitors are expected to give a show unexcelled in local basketball history, featuring flashy ball handling and accuracy rather than clown stuff.

One critic recently reported that Vagabonds were as good as the old Celtics at their best-and that was plenty good as any fan who ever saw Nat Holman, Dutch Denhart, Joe Lopschick and the other old timers in action

Play In Third League Tilt

The clash against Central Service will be the third league clash for the Cards. They opened with a victory over the Oak Ridge Vagabonds and were scheduled to meet K-25 Tuesday night of this victory over the Oak Ridge week prior to the game against Central Service Friday night.

The next loop engagement for the red and white of Y-12 will be against the Ridge Vagabonds at 7 o'clock next Wednesday night with K-25 and Clinton playing the finale at Jefferson.

Y-12 Badmintoners **Dethrones Lab Club** By Score Of 9 to 2

Capt. Mal Wallis' Y-12 badminton outfit handed the Oak Ridge National Laboratory team its first defeat in about three years-and did it in overwhelming style— last week at the high school gymnasium. When the birds had stopped flying the Y-12ers were out in front by the score of 9 to 2.

The only losses by Y-12 were

in two men's single matches with Lane beating Wallis and Silverman trimming Hill. Several other tilts went to three sets, being hard fought to the final smash but the Y-12ers came through when the chips were down to dethrone the net artists who had reigned su-preme in Oak Ridge for many moons.

Paint Can Drip Drain Aimed To Avoid Smears

The National Patent Council has reported the recent patent of a drip drain for paint cans that should avoid many ugly smears. The device resembles a small pie tin with the center removed. It fits over a can of paint with the convex side down. The flange thus created provides a rest for a wet brush. Drippings run back into the can through the center opening. Thus a partly used can remains unsmeared and it can be

the Oak Ridge National Laboratory will meet in the opener. All of the games are slated for the new gymnasium at Jefferson Junior High School. Rise In B League

The Maintenance team in the B League of plant keglers almost stole the show in the weekly alley activities of the loop last week, trimming the Cubs for three points and racking up most of the high scores of the night. Mean-while the loop-leading Wolves and All Stars maintained their torrid pace by taking three-point wins from One-91 and Wasps respectively.

In other matches the Comets turned in the only whitewash win of the night by blanking the Bumpers for four points. The Rippers ripped the Head Pins and the Bums bumped the Tigers, each by three-point margins.

The Maintenance bowlers had the best scratch single game of 964, boosted to 1,090 with handicap for top score of the second half of play. Their 2,963 handicap series was third best of the period and the Wolves came through with a 2,539 scratch series for third best of the second half.

Joe Dunlap paced the Mainten-ance team with a 227 scratch game, boosted to 253 with handicap, both third best of the period. Tom Webber, of the Wasps, and Len Hart, of the Rippers, tied for the best scratch series of the night with 558. Webber then posted the top handicap series of the session with 660.

League standing follows:

Leam W L Team

Volves 15 3 Bumpers

Vasps 13 7 Bums

ippers 11 9 Maintenance

lead Pins 10 10 Tigers

lomets 10 10 Cubs Team Wolves All Stars Wasps Rippers Head Pins Comets

Retirement Plan Deductions Change For Weekly Payroll

Payroll deductions for the Company Retirement Plan will be made weekly in the future for weekly and hourly paid Y-12ers participating in the plan whose straight-time earnings exceed \$57.69, the weekly equivalent of

\$3,000 annual earnings.
Previously deductions for participating employees on the weekly and hourly payroll did not begin until a total of \$3,000, at straight time, had been earned for the calendar year. Deductions then were made at the rate of four per cent of all straight-time earnings during the remainder of the

Under the new provisions de-ductions will be made weekly at the rate of four per cent of the straight-time earnings in excess of \$57.69.

Retirement plan benefits are paid monthly for life after retirement at 65 years of age for men and 60 for women. The annual income will be 50 per cent of the amount of payments made be date of enrollment and the normal retirement date.

ATOMIC COURSES OFFERED

The University of California at Los Angeles now is offering three courses pertaining to atomic energy. The physics department presents "Atomic and Nuclear Physics Laboratory" while the zoolo-gy department schedules "Isotopic Tracers in Biology" and engineer-ing students are able to study "Engineering Aspects of Nuclear Processes."

CARBIDE AND CARBON CHEMICALS DIVISION Union Carbide And Carbon Corporation

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'The Oak Ridge Story' Is Interesting Historical Document About Atomic City

SOUTHERN PUBLISHERS, INC.

Millions of words have been written about the fabulous history of Oak Ridge—in magazines, newspapers and other periodicals—but The Oak Ridge Story, by George O. Robinson, Jr., is the first book-length bit of literature to attempt to comprehensively cover the non-technical history of the Atomic City.

"Gus" Robinson has utilized his newspaper writing craft to turn out a book that should be of great interest to every Y-12er and all residents of Oak Ridge-past, present and future. The main body of the book deliberately fends away from the scientific and technical history created in the atomic plants of Oak Ridge, but etill rividly relates the birth but still vividly relates the birth and growth of the city in a man-ner that gives a lively narration of the development of the atomic energy enterprise in the commun-

ity. For the technically - inclined there are appendices and some notes on production of Uranium 235 and Plutonium, chain reactions and other information. There even is a list of organizations in Oak Ridge and a map of the city. There also are several illustra-

The development of Y-12, as well as other atomic energy facilities in Oak Ridge, is given prominence by the author. A unique and interesting approach to the history of the city is brought out right at the start with the story of John Hendrix, the "prophet" who around the first of the century told his neighbors he could see—"Bear Creek Valley (Y-12's present location) some day will be filled with great buildings and factories and they will help toward winning the greatest war that ever

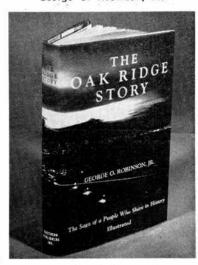
Robinson then goes on to tell of the unprecented days, months and years that followed breaking of ground for Oak Ridge city construction on January 1, 1943, and for the first Y-12 construction a month later. An important para-9 graph relates the completion of the first operations building in the Y-12 area and the epochial first "run" of Uranium 235 on a mass basis by the electromagnetic method on January 27, 1944. In another is revealed the interesting story of how \$500,000,000 worth of silver was borrowed from the United States Treasury to use for bus bars and electrical conductors in Y-12 when copper became rare and time short. How hundreds of

are also presented. not only is entertaining but contains many historical facts that make it almost a "must" on the general reading list of anyone in-terested in one of the greatest in-

ed with the project here from siles on target areas.



The Author-George O. Robinson, Jr.



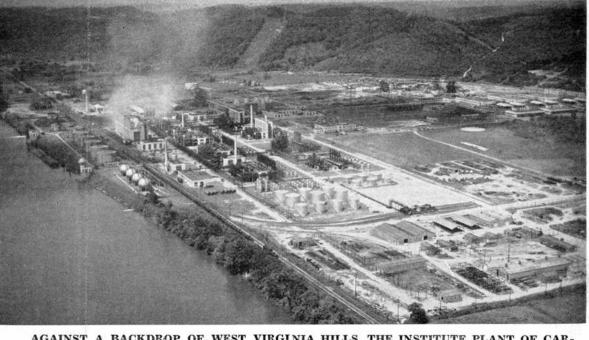
The Book-'The Oak Ridge Story'

June, 1943, on and in capacity of Public Relations Officer while in the Army and later as head of the Office of Public Information for the Atomic Energy Commission he had access to a wealth of ma-This material has been put together with skill gained by the author as a newspaper man of years of experience, mostly with the Memphis Commercial-

re also presented.

All in all, The Oak Ridge Story of only is entertaining but concern and Washington Times Herald, recently reported that Russia has three atomic bomb plants that produce four bombs per month. The reporter says that Russia has a stockpile of about 60 bombs. The terested in one of the greatest industrial and wartime development feats of all times.

The author is extraordinarily well qualified for the task he ably performed. He was associated with the project here from siles on target areas.



AGAINST A BACKDROP OF WEST VIRGINIA HILLS, THE INSTITUTE PLANT OF CAR-BIDE stretches along the bank of the Kanawha River. Storage tanks and railroad lines flank the river bank and behind them are the production and service units.

Carbide's Institute Plant In West Virginia First Won Fame With Production Of Butadiene For Synthetic Rubber Program

coal, oil and gas—from the state's rugged green hills and using the water of the Kanawha River, the people of the valley make thousands of dazzling, almost miraculous products. For instance in the war-shadowed year of 1943 they produced a real industrial miracle -they made rubber.

The story of synthetic rubber is the birth story of the Institute plant of Carbide and Carbon Chemicals Division, Union Car-bide and Carbide Corporation. Under gevernment contract, Carbide designed, built and operated this plant that poured a flood of vital butadiene and styrene into the United States' war-time synthetic rubber program. With its war job done, the plant was put on the selling block. Carbide was the

Plant Acquired In 1947

Shortly after Carbide acquired the plant in June, 1947, work was begun to convert it for the production of chemicals. Since then there has been almost a continuous pro-gram of rebuilding and expan-sion. Today Institute ranks third in size and output in the Carbide and Carbon Chemicals Division family. It is smaller than the Texas City, Tex.. plant and larger than the Whiting, Ind., plant.

The Institute plant covers about 140 acres on the bank of the Kanawha and is seven miles downstream from the South Charleston Rows of silvery storage tanks flank the river bank, and behind them rise the skeleton, shape of a gas separation unit, the tall stacks of furnaces, and the yellow-brick bulk of production

units and service buildings.

Steam Plant Largest Building

The largest building is steam plant. It has eight mighty steam generators and together they turn out 1,200.000 pounds of steam an hour. This plant gulps 2.400 an hour. This plant gulps 2.400 gallons of treated water a minute, and 20 railroad cars of coal a

Natural gas, the plant's main material, now is piped from the South Charleston plant. It is expected that facilities soon will be completed to have it piped directly from Carbide's small but vital gas processing plants at Diamond and Hastings, W. Va., and Leach, Ky. Five "Tools" Are Utilized

Its first stop, when it reaches the plant, is the furnaces. From them the gas passes to the compressors, and then to the gas separation derway in April, 1942. In Febru- ing.

ley is well-named "The Magic component parts, the gas goes in-Valley." Dipping into the treasure chest of natural raw materials — points other raw materials are fed points other raw materials are fed in, and the chemicals are made with the chemical industry's five tools-heat, cold, pressure, vacuum, and catalysts.

A number of Institute's products are transferred by pipe line and barge to South Charleston for use as "raw materials" in production of other chemicals.

These Institute products are important to America's economy today. But butadiene—the plant's war-time product, and the product that brought the plant into being—was far more vital. Its story is a striking history of wartime achievement. Need Seen In 1940

The first hints of the need for butadiene came in 1940 when the war began to threaten, and in some places cut the United States' sources of natural rubber. It was about this time that the govern-ment began to plan for the pro-duction of synthetic rubber.

Almost five years before this time Carbide had purchased the land at Institute for possible fu-ture use as a plant site. Carbide reasoned that some day a plant would have to be built in the area to take some of the production load from the shoulders of the South Charleston plant. But before the "someday" arrived the government asked to purchase the site for a butadiene plant . Butadiene, along with styrene,

was a main raw material in one of the types of synthetic rubber the government decided to make to offset the lack of natural rub-This lack became an acute shortage a few months after Pearl Harbor, when Japan sealed off 90 per cent of the natural rubber sources.

Carbide Had Made Butadiene

The need for butadiene became known in August, 1940, when the government called in representatives of several rubber, oil and chemical companies to help them solve the problem of large-scale Appeal.

Appeal.

—G W.D.

Appeal.

App had never tried to turn it out in quantity.
Carbide made the try soon after

the conference. Six months later it came up with a process for large-scale production. The process -was - accepted and Carbide was authorized to design and build a butadiene plant. It was at this time that the government bought the plant site.

Construction at Institute got un-

West Virginia's Kanawha Val- units. Then, separated into its ary 1943, the first tank car of the clear, gasoline-like chemical was shipped. Three months later the fourth butadiene unit went into operation, and the plant was in full production.

Period Likened To Oak Ridge

Under security wraps the Institute plant went through a period similar to the "knee-deep-mud" days at Oak Ridge. Expediters chased material all over the country, insulated pipes froze, and construction difficulties were construction difficulties were around every corner. But the plant went up, and within weeks production figures hit record highs. Altegether the plant produced enough butadiene and styrons for 295 000 tens of with the rene for 385,000 tons of synthetic rubber. To accomplish this the plant was run at well over 175 per cent of its rated capacity for the three years of the synthetic rubber program.

The working force that produced the butadiene and styrene, and who are making Institute's chemicals tcday, is largely made up of native West Virginians. A good number of the men and women employed there today were also at the plant during the butadiene days, and some have been transferred there from other Carbide



Continued from Page 2

ty Department, and his family spent a week of vacation in Jackson, Tenn.

The Health Physics and Hygier Department welcome Norman Hilbreth, Jim Muir, and Virginia Means, wife of our good friend, Evan. . . . Mary Barnes spent a week of vacation at her home in Montgomery, Ala. . . Ball Bau-mann spent a week of vacation at home in Oak Ridge.

Congratulations to Bruce Whitaker, of Manufacturing Office, one and one-half ounces and has been named Bruce Woods. Anybody want to know anything else—just ask Poppa . . . Pearl Patty vacationed at her home in Lake City last week. . . . Irene Turner and her husband spent Christmas at her home in Charlottesville, Va.

Y'all come see us sometimes.

Health—What people are always drinking to before collaps-